

09/732, 437
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1	27667	gsm or gprs or egprs	USPAT; US-PGPUB; EPO; JPO; DERWENT; IBM_TDB	2004/06/20 20:03
2	87	(gsm or gprs or egprs) with compact	USPAT; US-PGPUB; EPO; JPO; DERWENT; IBM_TDB	2004/06/20 21:23
3	1154	"8psk" or "8-psk"	USPAT; US-PGPUB; EPO; JPO; DERWENT; IBM_TDB	2004/06/20 21:24
4	126	("8psk" or "8-psk") with gmsk	USPAT; US-PGPUB; EPO; JPO; DERWENT; IBM_TDB	2004/06/20 21:25
5	851	"8" adj psk	USPAT; US-PGPUB; EPO; JPO; DERWENT; IBM_TDB	2004/06/20 21:26
6	1331	("8psk" or "8-psk") or ("8" adj psk)	USPAT; US-PGPUB; EPO; JPO; DERWENT; IBM_TDB	2004/06/20 21:26
7	130	((("8psk" or "8-psk") or ("8" adj psk)) with gmsk	USPAT; US-PGPUB; EPO; JPO; DERWENT; IBM_TDB	2004/06/20 21:52
8	121	(gsm or gprs or egprs) with tone\$1	USPAT; US-PGPUB; EPO; JPO; DERWENT; IBM_TDB	2004/06/20 21:53
9	6	((("8psk" or "8-psk") or ("8" adj psk)) with tone\$1	USPAT; US-PGPUB; EPO; JPO; DERWENT; IBM_TDB	2004/06/20 21:53

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1 Design of an internal quad-band antenna for mobile phones

Ciais, P.; Staraj, R.; Kossiavas, G.; Luxey, C.;

Microwave and Wireless Components Letters, IEEE [see also IEEE Microwave and Guided Wave Letters] , Volume: 14 , Issue: 4 , A 2004

Pages:148 - 150

[\[Abstract\]](#) [\[PDF Full-Text \(208 KB\)\]](#) **IEEE JNL**

2 Dual-band planar inverted F antenna for GSM/DCS mobile phones

Shih-Huang Yeh; Kin-Lu Wong; Tzung-Wern Chiou; Shyh-Tirng F

Antennas and Propagation, IEEE Transactions on , Volume: 51 , Issue: 5 , May 2003

Pages:1124 - 1126

[\[Abstract\]](#) [\[PDF Full-Text \(329 KB\)\]](#) **IEEE JNL**

3 Compact monopole antenna for GSM/DCS operation of mobile handsets

Sun, B.; Liu, Q.; Xie, H.;

Electronics Letters , Volume: 39 , Issue: 22 , 30 Oct. 2003

Pages:1562 - 1563

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1 Transmit architectures and power control schemes for low cost highly integrated transceivers for GSM/EDGE applications
Hadjichristos, A.;

Circuits and Systems, 2003. ISCAS '03. Proceedings of the 2003 International Symposium on , Volume: 3 , 25-28 May 2003
 Pages:III-610 - III-613 vol.3

[\[Abstract\]](#) [\[PDF Full-Text \(378 KB\)\]](#) **IEEE CNF**

2 Combined GMSK and 8PSK modulator for GSM and EDGE
Bode, P.; Lampe, A.; Helfenstein, M.;

Circuits and Systems, 2003. ISCAS '03. Proceedings of the 2003 International Symposium on , Volume: 3 , 25-28 May 2003
 Pages:III-614 - III-617 vol.3

[\[Abstract\]](#) [\[PDF Full-Text \(384 KB\)\]](#) **IEEE CNF**

3 RF power control in GSM systems for constant and non constant envelope modulation schemes

Becker, R.; Groeneweg, W.; Burdinski, R.;
 Circuits and Systems, 2003. ISCAS '03. Proceedings of the 2003 International Symposium on , Volume: 3 , 25-28 May 2003
 Pages:III-602 - III-605 vol.3

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1 Capacity evaluation of EGPRS in a frequency hopping network

Nikkarinen, S.; Moisio, M.;

Wireless Personal Multimedia Communications, 2002. The 5th International Symposium on , Volume: 2 , 27-30 Oct. 2002
Pages:843 - 847 vol.2

[\[Abstract\]](#)
[\[PDF Full-Text \(560 KB\)\]](#)
IEEE CNF

2 Link adaptation and receiver design for enhanced General Packet Radio Services wireless networks

Qilian Liang;

Circuits and Systems, 2002. ISCAS 2002. IEEE International Symposium on , Volume: 3 , 26-29 May 2002
Pages:III-17 - III-20 vol.3

[\[Abstract\]](#)
[\[PDF Full-Text \(423 KB\)\]](#)
IEEE CNF

3 Link adaptation and power control for streaming service EGPRS wireless networks

Leung, K.K.; Driessen, P.F.; Chawla, K.; Xiaoxin Qiu;

Selected Areas in Communications, IEEE Journal on , Volume: 19 , Issue: 10 , Oct. 2001



US 20030026238A1

(19) **United States**(12) **Patent Application Publication** (10) **Pub. No.: US 2003/0026238 A1**
Baills et al. (43) **Pub. Date: Feb. 6, 2003**(54) **RADIO COMMUNICATION SYSTEM**(30) **Foreign Application Priority Data**(76) Inventors: **Stephane Laurent Baills**, Toulouse
(FR); **Ouelid Abdesselem**, Toulouse
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(FR)

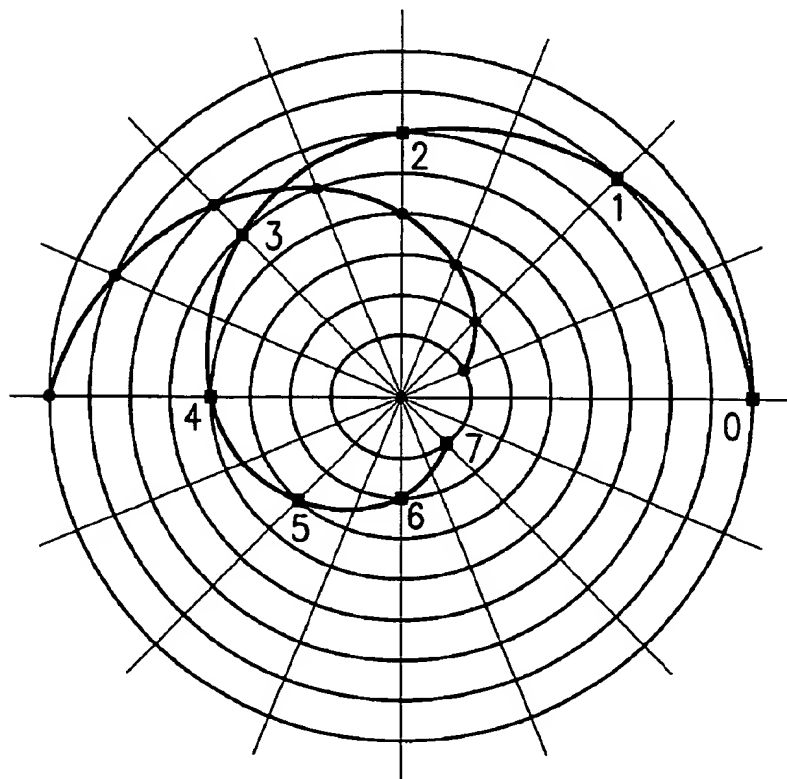
Dec. 7, 1999 (EP) 99403059.1

Publication Classification(51) **Int. Cl.⁷** **H04B 7/212**(52) **U.S. Cl.** **370/347; 370/458**

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Randall S. Vaas (RSV)**Motorola, Inc.****Personal Communications Sector****600 North US Highway 45****Libertyville, IL 60048 (US)**(57) **ABSTRACT**

The invention relates to a radio communication system in which a time slot of a frame of a multiframe signal allocated to the frequency control channel is modulated using an 8PSK modulation scheme to contain a tone having a frequency which GMSK modulation is unsuited to generate. This enables COMPACT-format signals to be distinguished from GSM-format signals and ensures backwards compatibility with all existing GSM mobile stations.

(21) Appl. No.: **09/732,437**(22) Filed: **Dec. 7, 2000**

—■— GRAY MAPPED MODULATING BITS
—●— SYMBOLS AFTER $3\pi/8$ ROTATION

(12) **EUROPEAN PATENT APPLICATION**

(43) Date of publication:
13.06.2001 Bulletin 2001/24

(51) Int Cl.7: **H04L 27/00, H04B 7/26,
H04J 3/06**

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(54) **Frame format for radio communication system**

(57) The invention relates to a radio communication system in which a time slot of a frame of a multiframe signal allocated to the frequency control channel is modulated using an 8PSK modulation scheme to contain a

tone having a frequency which GMSK modulation is unsuited to generate. This enables COMPACT-format signals to be distinguished from GSM - format signals and ensures backwards compatibility with all existing GSM mobile stations.

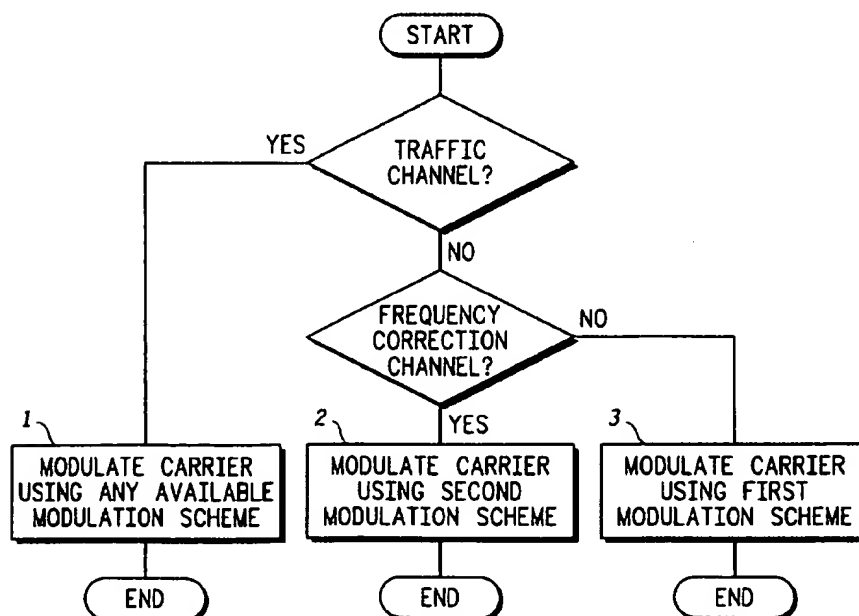


FIG.4